AUTODOC CLUB

How to change front brake discs on **BMW E46 touring** – replacement guide

VIDEO TUTORIAL



Important!

This replacement procedure can be used for:
BMW 3 Saloon (E46) 330d 2.9, BMW 3 Touring (E46) 330d 2.9, BMW 3 Touring (E46) 330xd 2.9, BMW 3 Saloon (E46) 330xd 2.9, BMW 3 Saloon (E46) 330xi 3.0, BMW 3 Touring (E46) 330xi 3.0, BMW 3 Saloon (E46) 330i 3.0, BMW 3 Touring (E46) 330i 3.0, BMW 3 Convertible (E46) 330Ci 3.0, BMW 3 Saloon (E46) 325i 2.5, BMW 3 Saloon (E46) 325xi 2.5, BMW 3 Coupe (E46) 330Cd 3.0, BMW 3 Saloon (E46) 330d 3.0, BMW 3 Saloon (E46) 330xd 3.0, BMW 3 Touring (E46) 330xd 3.0, (+ 4)

The steps may slightly vary depending on the car design.

REPLACEMENT: BRAKE DISCS – BMW E46 TOURING. TOOLS YOU NEED:



- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Drive socket # 16
- HEX bit No.H7.
- Torx bit T30
- Wheel impact socket #17
- Brake caliper wind back tool
- Ratchet wrench
- Torque wrench
- Tap wrench
- Crow bar
- Impact screwdriver
- Rubber mallet
- Wheel chock

BUY TOOLS

Replacement: brake discs – BMW E46 touring. AUTODOC recommends:

- Replace the brake disks on the car BMW E46 touring in complete set for each axis. Regardless of the state of components. This will ensure even braking.
- The replacement procedure is identical for both brake disks on the same axle.
- When changing the brake discs, always replace the brake pads.
- Please note: all work on the car – BMW E46 touring – should be done with the engine switched off.

CARRY OUT REPLACEMENT IN THE FOLLOWING ORDER:

1 Open the bonnet. Unscrew the brake fluid reservoir cap.



2 Secure the wheels with chocks.



3 Loosen the wheel mounting bolts. Use wheel impact socket #17.



4 Raise the front of the car and secure on supports.



5 Unscrew the wheel bolts.



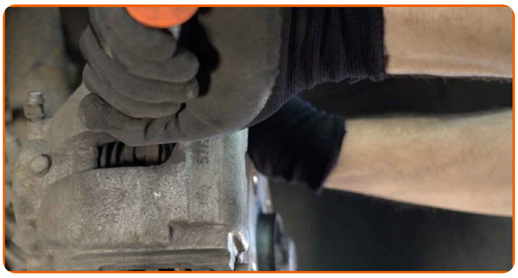
Replacement: brake discs – BMW E46 touring. Tip from AUTODOC:

- To avoid injury, hold up the wheel when unscrewing the bolts.

6 Remove the wheel.



7 Spread the brake pads. Use a crowbar.



8 Detach the brake caliper retaining spring. Use a crowbar.



9 Remove the dust boot caps of the brake caliper guide pins. Use a crowbar.



10 Unscrew the brake caliper fastening. Use HEX No.H7. Use a ratchet wrench.



11 Remove the brake caliper.



Replacement: brake discs – BMW E46 touring. Professionals recommend:

- Tie the caliper to the suspension or to the body with a wire without disconnecting from the brake hose to prevent depressurization of the brake system.
- Make sure that the brake caliper is not hanging on the brake hose.
- Don't press the brake pedal after the brake caliper has been removed. As a result, the piston can fall out from the brake cylinder, and brake fluid leakage and depressurization of the system may occur.

12 Remove the brake pads.



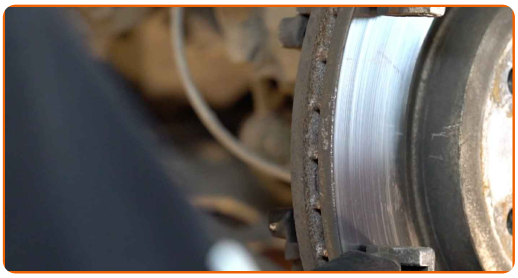
13 Clean the brake caliper bracket fasteners. Use a wire brush. Use WD-40 spray.



14 Unscrew the caliper bracket fastening. Use a drive socket #16. Use a tap wrench. Use a ratchet wrench.



15 Remove the caliper bracket.



16 Clean the brake disk surface. Use a wire brush. Use WD-40 spray.



17 Unscrew the brake disc fastening. Use Torx T30. Use an impact screwdriver.



Replacement: brake discs – BMW E46 touring. AUTODOC experts recommend:

- If necessary, use a rubber mallet.

18 Remove the brake disc.



19 Clean the hub. Use a wire brush. Treat the contacting surface. Use copper grease.



20 Install the brake disc.



21 Tighten the brake disc fastening. Use Torx T30. Use a torque wrench. Tighten it to 16 Nm torque.



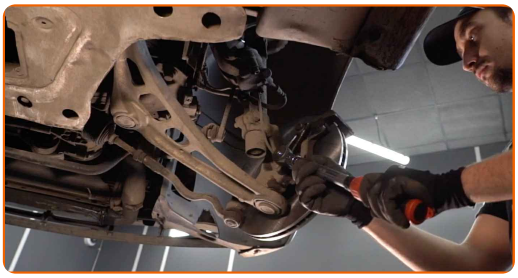
22 Clean the mounting seats of the caliper and its bracket. Use a wire brush. Use WD-40 spray.



23 Install the brake caliper bracket.



24 Tighten the brake caliper bracket. Use a drive socket #16. Use a torque wrench. Tighten it to 110 Nm torque.



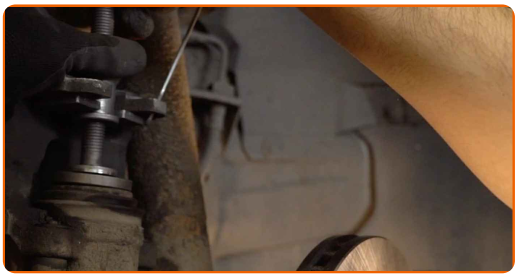
25 Treat the brake caliper piston. Use a brake cleaner.



AUTODOC recommends:

- Replacement: brake discs – BMW E46 touring. After applying the spray, wait a few minutes.

26 Press in the brake caliper piston. Use brake caliper wind back tool.



27 Install the brake pads.



28 Install the brake caliper and fix it. Use HEX No.H7. Use a torque wrench. Tighten it to 30 Nm torque.



29 Install the dust boot caps of the brake caliper guide pins.



30 Install the brake caliper retaining spring.



31 Clean the brake disk surface. Use a brake cleaner.



Replacement: brake discs – BMW E46 touring. Tip from AUTODOC experts:

- After applying the spray, wait a few minutes.

32 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.

33 Install the wheel.



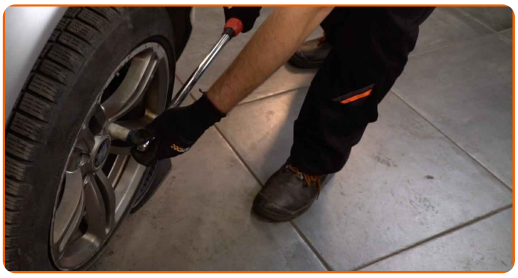
AUTODOC recommends:

- Important! Hold the wheel while screwing in the fastening bolts. BMW E46 touring

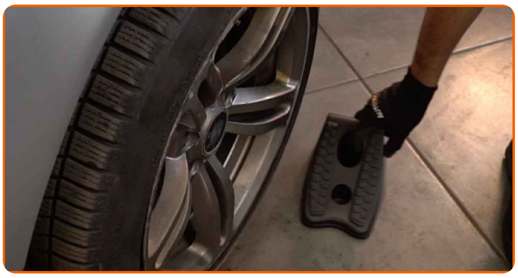
34 Screw in the wheel bolts. Use wheel impact socket #17.



35 Lower the car and working in a cross order, tighten the wheel bolts. Use a torque wrench. Tighten it to 120 Nm torque.



36 Remove the jacks and chocks.



Replacement: brake discs – BMW E46 touring. Tip from AUTODOC:

- Check the brake fluid level in the expansion tank and refill if necessary.

37 Tighten the brake fluid reservoir cap.



AUTODOC recommends:

- BMW E46 touring – Without starting the engine, press the brake pedal several times until it feels firm.

38

Close the hood.



WELL DONE!

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